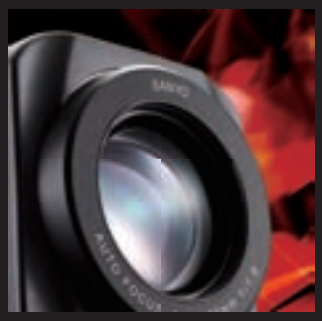
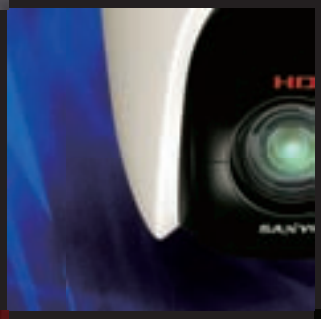
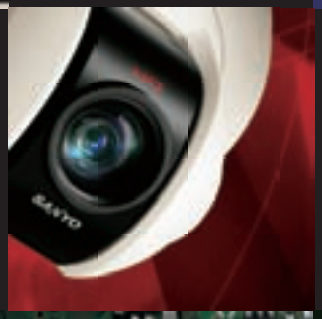
Full HD Network Camera
Full Line Product Guide

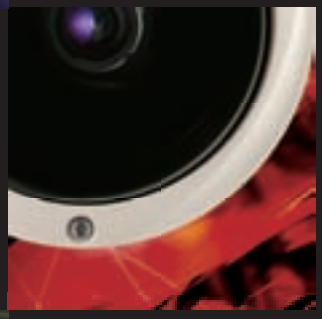
SANYO

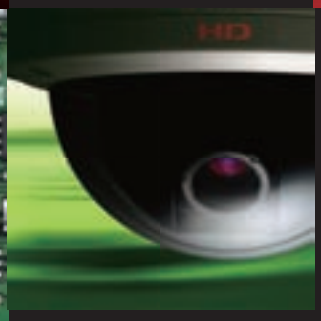


SANYO, the first choice for Full HD









Full-HD, full-frame, 4 megapixel, high-resolution MJPEG images

Sanyo's Full-HD network cameras provide high definition video monitoring at full 1920 x 1080 HD resolution, as well as sharp and vivid 4-megapixel MJPEG images.*1 The result is a significant improvement in detail during video monitoring. All models offer full-frame rates of up to 30 ips for capturing smooth, natural high definition video of monitored locations.

*1 2 megapixels for VCC-HD5600/VCC-HD5600 BK/VCC-HD5400/VCC-HD5400 BK

New Xacti HD-Pro/Optimum IP-Pro*2 twin-engine system for high-speed image and network processing

Developed for professional monitoring use, the Xacti HD-Pro is a new version of the Xacti digital camera image-processing engine. This new twin-engine system combines an image-processing engine with a network engine to produce smooth, high-speed video as well as sharp and vivid still images.

*2 Not available on VDC-HD3300/VDC-HD3100/VCC-HD2300/VCC-HD2100

H.264/MJPEG dual encoding plus multi-streaming

These full-HD network cameras offer both H.264 and MJPEG encoding to enable monitoring using either smooth video or vivid still images. The new twin-engine models can monitor up to four streams.

Four types of full-HD cameras are available—eleven models in all

All offer smooth, remote-network monitoring with high definition and resolution.

Full HD PTZ Camera Series

VCC-HD5600
VCC-HD5600 BK*3
VCC-HD5400
VCC-HD5400 BK*3

*3 Black color version

- Multi-stream monitoring (Quad streams)
- 1080p H.264
- 2-megapixel MJPEG
- Optical 10x AF zoom
- 30 ips (full-frame rate)
- Monitor Out for set-up
- True Day/Night
- Twin processing engines
- HDMI Out (optional on 5600/5600 BK)
- Video Analytics
- Bidirectional Audio
- Edge recording on SD or HDD

Full HD Zoom Camera

VCC-HD4600

- Multi-stream monitoring (Quad streams)
- 1080p H.264
- 4-megapixel MJPEG
- Optical 10x AF zoom
- 30 ips (full-frame rate)
- Megapixel-rated lens
- Monitor Out for set-up
- True Day/Night
- Twin processing engines
- HDMI Out
- Video analytics
- Bidirectional audio
- Digital PTZ
- Edge recording on SD or HDD

Full HD Vandal-Resistant Camera

VDC-HD3500
VDC-HD3300
VDC-HD3100

- 1080p H.264
- 4-megapixel MJPEG
- 30 ips (full-frame rate)
- Megapixel-rated Vari-focal lens
- Focus-assist drive
- Vandal-Resistant IP66
- Monitor Out for set-up
- True Day/Night (3500/3300)
- Twin processing engines (3500)
- Video analytics (3500)
- Bidirectional audio (3500)
- Digital PTZ (3500)

Full HD CS-Mount Camera

VCC-HD2500
VCC-HD2300
VCC-HD2100

- 1080p H.264
- 4-megapixel MJPEG
- 30 ips (full-frame rate)
- Focus-assist drive
- CS Mount
- Monitor Out for set-up
- True Day/Night (2500/2300)
- Twin processing engines (2500)
- Video analytics (2500)
- Bidirectional audio (2500)
- Digital PTZ (2500)

1920 x 1080 full HD (in H.264 video mode)

Capture high-definition, full-frame images that are sharp and clear right down to the smallest details. In H.264 video mode, these cameras provide an unprecedented level of detail, including people's expressions, office and store interiors, the denomination of bills in the cash register, and more.

1920 x 1080 full HD
(in H.264 video mode)

4-megapixel still images (MJPEG mode)

In MJPEG still-image mode, these cameras capture sharp, high-definition images even when using the digital zoom. The 4-megapixel images (2288 x 1712 pixels) are wider in area and have a greater resolution than conventional camera models (VGA: 640 x 480 pixels). An RGB primary color filter enables faithful color reproduction.

Image quality of images with the same area

300,000 pixels (640 x 480)

4 megapixels (2288 x 1712) 1.3 megapixels (1280 x 960)

4-megapixels provide wider coverage than can be captured at VGA quality

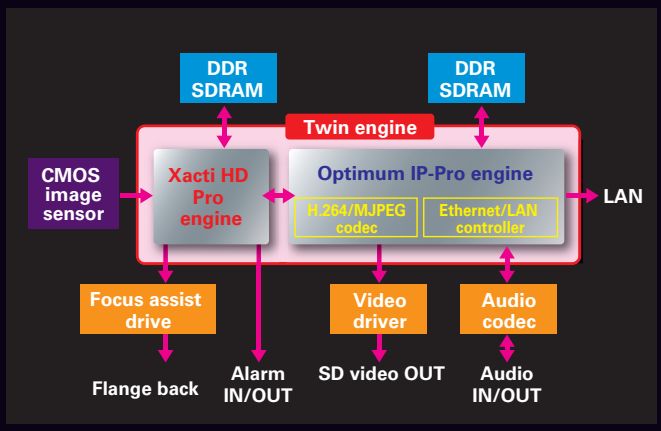
4 megapixels

VGA

Xacti HD-Pro/Optimum IP Pro* twin-engine processing system for fast and efficient monitoring

The top models in Sanyo's New HD Series feature the same high-quality motion picture technology used in the highly popular Xacti Series of digital movie cameras. These models have a new twin-engine image processing system incorporating the New Xacti HD-Pro image processing engine and a new dedicated network engine, the Optimum IP Pro*. The Xacti HD-Pro engine was developed for professional security cameras from the advanced image-processing engine used in the Dual Camera Xacti. Unlike conventional network cameras, the twin-engine system of the New HD Series processes images and network loads separately. The result is powerful, fast, and efficient monitoring.

(* Not available on VDC-HD3300/VDC-HD3100/VCC-HD2300/VCC-HD2100)



High-performance AF optical 10x zoom lens

The New HD Series cameras feature a lens that offers a whole new level of high-quality monitoring. The lens combines the high resolution, high-performance, and highly reliable engine developed for the Sanyo Dual Camera Xacti with a 10x optical zoom lens with autofocus capability. The combination provides unmatched monitoring at 4-megapixel picture quality and full HD resolution. A digital zoom function extends the zoom range to 160x.

(Available only with the VCC-HD5600/VCC-HD5600 BK/VCC-HD5400/VCC-HD5400 BK/VCC-HD4600)

H.264/MJPEG dual encoding and multi-streaming capability

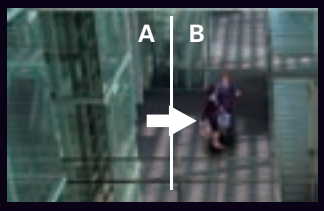
The New HD Series offers two encoding formats: H.264 and MJPEG. Up to four streams can be monitored at the same time, depending on the resolution, frame rate, picture quality, etc., of the streams. Select the right encoding format for the intended use: H.264 for video monitoring and MJPEG for vivid, high-resolution image recording.
(VDC-HD3300/VDC-HD3100/VCC-HD2300/VCC-HD2100 provide up to two streams.)

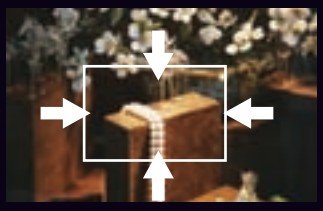
Picture quality and size can be freely selected.

1280×720	H.264	30IPS	x 1 stream	Single-screen live monitoring
320×180	H.264	30IPS	x 1 stream	Multi-screen live monitoring
1280×720	JPEG	5IPS	x 1 stream	Recording
640×360	JPEG	10IPS	x 1 stream	Single-screen live monitoring

Video analytics

The system can be set to monitor certain lines (up to 8) or certain areas (up to 4). It can begin recording or send an alarm image by e-mail when someone has entered or removed something from a designated area.
(Not available with the VDC-HD3300/VDC-HD3100/VCC-HD2300/VCC-HD2100)



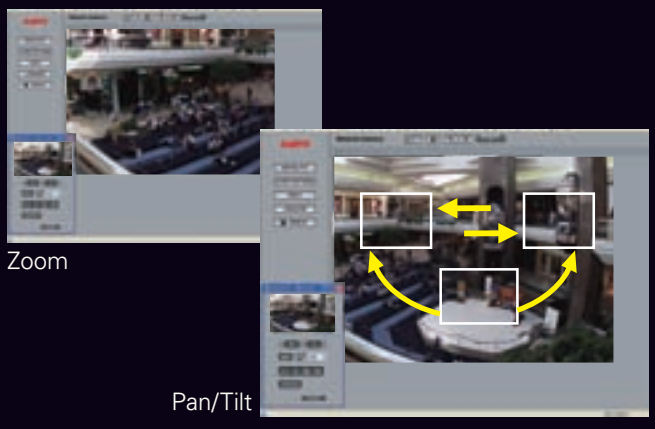


PTZ function covers every angle

Some models feature a PTZ function that minimizes blind areas by allowing the camera to pan 360 degrees horizontally and cover a wide vertical range from -20 to 200 degrees.
(Available only with the VCC-HD5600/VCC-HD5600 BK/VCC-HD5400/ VCC-HD5400 BK)

Digital PTZ

Up to four sections of the entire monitoring screen can be clipped and saved at VGA size. Digital signal control makes it easy to pan, tilt, and zoom the camera to align the camera field angle with the target object, and to enlarge or reduce the image. These capabilities ensure efficient monitoring operations.
(Available only with the VCC-HD4600/VDC-HD3500/VCC-HD2500)



Zoom

Pan/Tilt

Cropping function

Specific sections of high-definition, high-resolution images can be clipped and saved at VGA size. As the resolution is unchanged and specific sections of the image can be clipped, the clips are high-definition but small in size, ensuring effective use of network bandwidth.
(Not available with the VDC-HD3300/VDC-HD3100/VCC-HD2300/VCC-HD2100)

Images to be kept at high resolution can be clipped.

It is possible to send only the clipped sections, ensuring effective use of bandwidth.

Motion sensors

The motion sensors detect changes in brightness within the photographed image. The system can be set to begin recording or issue an alarm. On cameras with a zoom lens, the system also can be set to zoom in on an object.

Progressive scan CMOS sensor for sharp image reproduction

Unlike conventional interlaced scanning which scans the screen twice, progressive scanning scans the screen in a single pass, enabling images to be captured in greater detail.

Focus assist

Megapixel cameras that take high-definition images require precise focusing. The New HD Series' focus assist function makes it possible to adjust the focus visually using the numbers and graphs that appear on the monitoring screen. The resulting images are clear and sharp.
(Not available with the VCC-HD5600/VCC-HD5600 BK/VCC-HD5400/ VCC-HD5400 BK/VCC-HD4600)

Privacy mask function

To ensure privacy, up to eight areas can be masked in advance within a photographed image. The masked areas are not photographed. Even when the camera zooms in on a masked area, the mask automatically expands to ensure that the area remains masked.

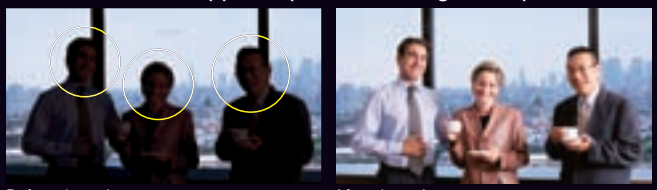
Day/Night function automatically switches between color and black & white according to the brightness level

The Day/Night function uses an infrared filter on/off system to automatically ensure optimum image quality under all lighting conditions. During the day and other bright situations, the camera takes vivid color images. At night and other dark situations, the camera automatically switches to black & white and takes high-resolution monochrome images.
(Not available with the VDC-HD3100/VCC-HD2100)

Automatic facial recognition function

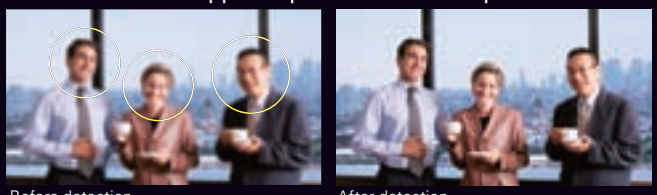
When a face is photographed, the focus is adjusted automatically. Under backlit conditions, the iris is automatically adjusted to prevent the face from being too dark, ensuring that people's faces are always clearly visible.
(Not available on VDC-HD3300/VDC-HD3100/VCC-HD2300/VCC-HD2100)

Detects faces and applies optimum backlight compensation



Before detection　　After detection

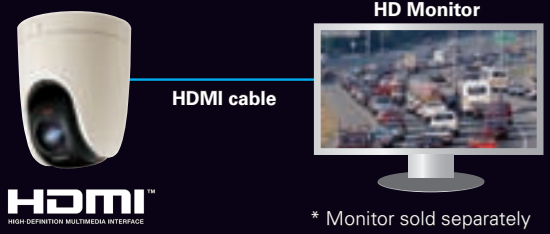
Detects faces and applies optimum focus compensation



Before detection　　After detection

HDMI terminal

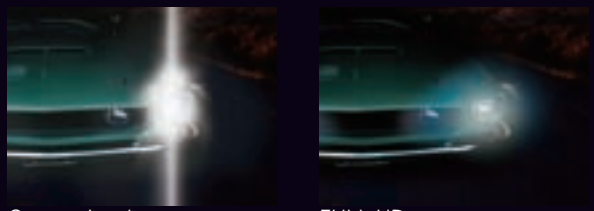
To view high-definition images and video, connect the camera to a high-definition television via a commercially available HDMI cable.
*Standard with the VCC-HD5400/VCC-HD5400 BK/VCC-HD4600. Also available with the VCC-HD5600/VCC-HD5600 BK when optional HDMI-Out Option Board (VA-HDB90) is installed.



* Monitor sold separately

Smear-free monitoring

Conventional CCD units can suffer from vertical noise (smearing) due to bright lights or areas in a monitored location. The sensor in the New HD Series cameras diminishes this smearing for a clearer, brighter picture.



Conventional cameras　　FULL HD camera

3-D DNR function

The 3-dimensional dynamic noise reduction function reduces the noise in images even when monitoring dark locations.

SD slot and external HDD connectivity

In addition to its continuous recording capability, the SD card slot*4 and external hard drive connectivity*5 enable the camera to store images locally. This ensures that a recording is made when the camera's sensor is activated, even if the network is not working.
*4 Not available on VDC-HD3300/VDC-HD3100/VCC-HD2300/VCC-HD2100
*5 Only for VCC-HD5600/VCC-HD5600 BK/VCC-HD5400/VCC-HD5400 BK/ VCC-HD4600

Bi-directional audio transmission

The bidirectional audio transmission function enables interactive communication between the camera and a microphone-equipped client PC. The audio is formatted as G.711 PCM (64 kbps) and is full-duplex for greater conversational convenience.
(Not available with the VDC-HD3300/VDC-HD3100/VCC-HD2300/VCC-HD2100)

External alarm input/output terminal

Two inputs and two outputs for external alarms*6 can be coordinated with external sensors to enable the camera to zoom in on an object, e-mail an image, or begin recording.
*6 The VCC-HD5400/VCC-HD5400 BK provide 4 inputs and 2 outputs for external alarms. The VCC-HD5600/VCC-HD5600 BK provide 8 inputs and 2 outputs for external alarms

Monitor output function (all models)

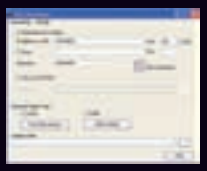
For easier field-angle and focus adjustment*7, a monitor can be directly connected to these cameras after the cameras are installed. The cameras output an analog video signal, making the purchase of a new monitor unnecessary.
*7 Available with box models (VCC-HD2500/VCC-HD2300/VCC-HD2100) and fixed-dome models (VDC-HD3500/VDC-HD3300/VDC-HD3100)

Support for PoE (Power over Ethernet)

This standard makes it possible to use Ethernet cables (Category 5 or higher) to supply power, eliminating the need for power supply work.
Note: requires an IEEE 802.3af supply adapter or power-sourcing-compatible switching hub. (Not available on VCC-HD5600/VCC-HD5600 BK)

VA-SW3050LITE server software (included in package)

Compliant with IEEE 802.3af, this feature makes it possible to supply power to the cameras over Ethernet cables (Category 5 or higher), eliminating the need to run power lines to the cameras.
Note: requires an IEEE 802.3af supply adapter or power source-compatible switching hub. (Not available with VCC-HD5600/VCC-HD5600 BK)



Auto-IP setup utility software included
Connect the camera to a network and then launch this program on a PC on the network. The program will automatically search for cameras and easily set IP addresses.

HDC downloader/viewer included
This utility enables the images taken by the camera to be downloaded and viewed.

Optional (sold separately)

HDMI-Out Option Board VA-HDB90
Hard Disk Case VA-HDC4000
for VCC-HD5600/5600 BK/ 5400/5400 BK/4600
Hard Disk Case Bracket VA-HDK1
for VCC-HD4600

VA-HDB90
(Only for VCC-HD5600 VCC-HD5600 BK)

Network Recorder
VA-SW3050S
VA-SW3050C
Video Management Software (VMS)
VA-SW50 (Advanced)
VA-SW60 (Enterprise)

Wide Conversion Lens
VCP-L07W1 for VCC-HD4600
Camera Control Unit VAC-70
for VCC-HD4600
Heater Board VA-60H
for VDC-HD3xxx series

Model	VCC-HD5600/VCC-HD5600 BK	VCC-HD5400/VCC-HD5400 BK	VCC-HD4600
Image sensor	1/2.5" Progressive Scan CMOS		
Number of pixels	Effective 16:9 1920 (H) x 1080 (V) 4:3 1600(H) x 1200(V)		Effective 16:9 1920 (H) x 1080 (V) 4:3 2288(H) x 1712(V)
Lens	Focal length f=6.3 to 63.0mm, Optical zoom 10x, F number F1.8 to 2.5, Digital zoom 16x		
Image compression	H.264/MJPEG		
View angle	**Horizontal**: (16:9) 5.5 to 50.6° (4:3) 5.2 to 48.7° **Vertical**: (16:9) 3.1 to 29.3° (4:3) 3.9 to 37.0° **Diagonal**: (16:9) 6.2 to 57° (4:3) 6.5 to 58.8°		
Auto Focus	Auto/Manual/One-push		
Minimum illumination	2.0 lx (at.F1.8, GAIN: HIGH, at color mode)/0.1 lx (at F1.8, GAIN: HIGH, at B/W mode)		
Video S/N ratio	More than 50dB AGC OFF		
Day/Night	True Day/Night		
White balance	ATW/AWC/MWB/Outdoor/Indoor/Fluorescent, Adjustable R and B signals in MWB mode		
Backlight compensation	Multi-spot photometry/Center-zone photometry/OFF, mask settings possible/Face		
Electronic shutter	1/30, 1/60, 1/100, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000 Long shutter: x1, x2, x4, x8, x16, x32		
Electronic Iris	On / Off		
Auto Gain control	Normal/Middle/High/Off, Adjustable gain control in Off mode		
Gamma	0.45/1/Mode1/Mode2		
Privacy masking	ON/OFF, Max. 8 masks		
Motion detector	Yes, Video analytics		
Aperture compensation	On/Off		
DNR	3D		
Title	16 characters		
Face detection	●		
Image Stabilizer	●		
Mechanical			
Movement range	**Panning**: 360° Endless pan, **Tilting**: -20° to +200°		—
Movement speed	**Panning**: 420°/sec. (24V AC) **Tilting**: 360°/sec. (24V AC)	**Panning**: 350°/sec. (24V AC) **Tilting**: 350°/sec. (24V AC)	—
Preset positions	256 positions		—
Auto mode	Sequence/auto pan/tour		—
Auto return	On/Off		—
Auto pursuit	On/Off		—
Interface			
Video output	Composite out (for adjustment only), HDMI*8	Composite out (for adjustment only), HDMI	Composite out (for adjustment only), HDMI (mini type)
SD card slot	1(SDHC)		
Network port	10BASE-T/100BASE-TX (RJ45 connector)		
Alarm input/output	8/2	4/2	2/2
Audio input/output	Mic in/Line out (3.5 mini jack)		
Communication	RS-485		—
USB port	For dedicated HDD case only		
General			
Environmental conditions Operating	Temperature: -10 to +50°C (14°F to 122°F), -30 to +50°C (-22°F to +122°F) when the outdoor housing, VA-80EX is used, Humidity: within 90% RH	Temperature: -10 to +50°C (14°F to 122°F) Humidity: within 90% RH	
Environmental conditions Storage	Temperature: -20 to +70°C (-4°F to 158°F) Humidity: within 70% RH		
Power requirement	24 V AC ±10%, 60Hz*9	24V AC ±10%, 60Hz / 12 to 15V DC, PoE (IEEE802.3af)	
Power consumption (approx.)	29 W: VCC-MCH5600+VA94S	21 W (24 V AC, 12 V DC), 12.3 W (PoE)	15.0 W (24 V AC/12 V DC), 12.3 W (PoE)
Outdoor housing	35 W: VA-80EX	—	
Dimensions (approx.)	ø192 x 181(H) mm (7.56 x 7.13 inch)	ø124 x 153.4(H) mm (4.88 x 6.04 inch)	62.8(W) x 64.2(H) x 114.7(D)mm (2.47(W) x 2.53(H) x 4.52(D) inch)
Weight (approx.)	Camera unit: 1.3 kg (45.9 oz) Power unit: 0.45 kg (15.9 oz) Surface cover*11: 0.11 kg (3.9 oz)	1.35 kg (47.62 oz)	420g (14.81 oz)

* Specifications, design and availability are to change without notice. *8 Option *9 Combination with VCC-MCH5600 / VCC-MCH5600 BK (Camera unit) and VA-94S (24 V AC) (Power unit)

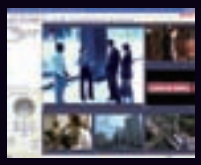
Model	VDC-HD3500	VDC-HD3300	VDC-HD3100	VCC-HD2500	VCC-HD2300	VCC-HD2100
Image sensor	1/3" Progressive Scan CMOS					
Number of pixels	Effective 16:9 1920 (H) x 1080 (V) 4:3 2288(H) x 1712(V)					
Lens / Lens mount	Built in vari-focal lens f=3 to 9 mm F1.2 to 2.1			CS mount		
Electronic focus adjustment	With focus assist					
Image compression	H.264/MJPEG					
Flange back	—			12.5mm ±0.5mm electronic adjustment with focus assist drive		
View angle	**Horizontal**:(16:9) 34.6 to 102.2° (4:3) 31.7 to 93.0°, **Vertical**: (16:9) 19.5 to 55.4° (4:3) 23.8 to 68.4°, **Diagonal**: (16:9) 39.4 to 109.7° (4:3) 39.6 to 118.9°			—		
Auto iris control	DC type					
Minimum illumination	1.0 lx (at.F1.2, GAIN: HIGH, at color mode)/ 0.1 lx (at F1.2, GAIN: HIGH, at B/W mode)		1.0 lx (at.F1.2, GAIN: HIGH, at color mode)	1.0 lx (at.F1.2, GAIN: HIGH, at color mode)/ 0.1 lx (at F1.2, GAIN: HIGH, at B/W mode)		1.0 lx (at.F1.2, GAIN: HIGH, at color mode)
Video S/N ratio	More then 50dB AGC OFF					
Day/Night	True Day / Night		—	True Day/Night		—
White balance	ATW / AWC / MWB / Outdoor / Indoor / Fluorescent Adjustable R and B signals in MWB mode					
Backlight compensation	Multi-spot photometry/Center-zone photometry/OFF mask settings possible/Face	Multi-spot photometry/Center-zone photometry/OFF mask settings possible		Multi-spot photometry/Center-zone photometry/OFF mask settings possible/Face	Multi-spot photometry/Center-zone photometry/OFF mask settings possible	
Electronic shutter	1/30, 1/60, 1/100, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000 Long shutter: x1, x2, x4, x8, x16, x32					
Auto Gain control	Normal / Middle / High / Off, Adjustable, gain control in Off mode					
Gamma	0.45/1/Mode1/Mode2					
Privacy masking	ON/OFF, Max. 8 masks					
Motion detector	●, Video analytics	●		●, Video analytics	●	
Aperture compensation	On/Off					
DNR	3D					
Title	16 characters					
Face detection	●	—		●	—	
Interface						
Monitor output	Composite out (for adjustment only)					
SD card slot	1(SDHC)	—		1(SDHC)	—	
Network port	10BASE-T/100BASE-TX (RJ45 connector)					
Alarm input/output	2/2					
Audio input/output	Mic in/Line out (3.5 mini jack)	—		Mic in/Line out (3.5 mini jack)	—	
General						
Environmental conditions Operating	Temperature: -10 to +50°C (14°F to 122°F) Humidity: within 90% RH					
Environmental conditions Storage	Temperature: -20 to +70°C (-4°F to 158°F) Humidity: within 70% RH					
Power requirement	24V AC ±10%, 60Hz / 12 to 15V DC, PoE (IEEE802.3af)					
Power consumption (approx.)	6.8W (with Heater 20W)	4.6W (with Heater 18W)		6.8W	4.6 W	
Dimensions (approx.)	ø146 x 94(H) mm (5.75 x 3.70(H) inch)			72.4(W) x 44.8(H) x 75.2(D) (2.85(W) x 1.76(H) x 2.96(D) inch.)		
Weight (approx.)	800 g (28.22 oz)	770 g (27.16 oz)		250 g (8.82 oz)	220 g (7.76 oz)	

NOTE: Specifications subject to change without notice

Network Recorder
VA-SW3050S/VA-SW3050C

Surveillance via network is possible from a PC by installing VA-SW3050S (for server) or VA-SW3050C (for client).
Recordings are made in JPEG format and managed exclusively by VA-SW3050S (for the server).

SANYO Video Management Software (VMS)
VA-SW50 (Advanced)/VA-SW60 (Enterprise) Sold separetly



SANYO Video Management Software is a software management platform for SANYO's IP and megapixel cameras, most of the industry's standard IP and megapixel cameras and encorders, and SANYO's embedded DVRs. Video Management Software is an NVR, PC DVR and embedded DVR control platform with total integration all under one software application.

VA-SW3050S / VA-SW3050C / VA-SW3050LITE (Bundled) Feature Comparison

			Bundled	Sold separately	
		Internet Explorer	VA-SW3050 LITE	VA-SW3050S	VA-SW3050C
			LITE	Server	Client
Number of cameras supported		Only 1	Max. 128		
Search camera		——	●	●	——
Live monitor		●	●	——	●
Multi-screen display		——	● (4, 9, 16)	——	● (4, 9, 16)
Camera Control	PTZ, etc.	●	●	——	●
	Menu	●	●	●	●
Video recording		——	——	● (JPEG only)	——
Playback		——	——	——	●
Video search		——	——	——	●
Backup		——	——	●	——
Download		——	——	——	● (Download from Server)
Print		——	●	——	●

System Requirements (for VA-SW3050S/VA-SW3050C/VA-SW3050LITE)

PC	IBM PC/AT and compatibles			
OS	Windows® XP Professional SP2, Windows® Vista, Windows® 2003 Server SP2 (VA-SW3050S only)			
CPU	Core2Duo E6700, 2.66GHz or higher	Core2Duo E6700,2.66GHz or higher*10 Core2Duo E8500,3.16GHz or higher*11	Pentium IV, 3.0GHz or higher	Core2Duo E6700,2.66GHz or higher*10 Core2Duo E8500,3.16GHz or higher*11
Memory	1GB (Windows® XP) 2GB (Windows® Vista)	1GB (Windows® XP) 2GB (Windows® Vista)*10 2GB or more	1GB or more	1GB (Windows® XP) 2GB (Windows® Vista)*10 2GB or more
Network interface	100BASE-TX			
Display card	1920 x 1200 pixels or higher		1024 x 768 pixels or higher, 16milion colors or higher	1920 x 1200 pixels or higher
Graphics chip	ATI: Radeon X1000 series or higher nVidia: GeForce 6000 series or higher Quadro4 series or higher			
Audio	——	Sound card with 100% Direct-X compatibility and speakers*12	——	Sound card with 100% Direct-X compatibility and speakers*12

*10 When the number of cameras connected is 4 or fewer
*11 When the number of cameras connected is between 5 and 16
*12 The camera main unit is not equipped with audio functions.
•Ver. 6.0 or higher •For Full-HD display •CD-Drive is required

Note: Depending on your computer's performance or network environment, the system may enter the busy state if the PC is connected to many H.264 video channels. If a warning message appears in the dialog box, decrease the number of the connected H.264 video channels.

SANYO Video Management Software (VMS) VA-SW50 (Advanced)/VA-SW60 (Enterprise)

Feature Comparison

Versions	Advanced Edition	Enterprise Edition
Model No.	VA-SW50	VA-SW60
Number of cameras supported	16	unlimited
Number of Clients	5	unlimited
Camera Control	●	●
Video Recording	●	●
Playback	●	●
Video Search	●	●
Download from PC	●	●
SANYO DVR Connection	——	●

Minimum System Requirements (for VMS server)

PC	IBM PC/AT and compatibles	
OS	Windows® XP Professional SP2/SP3, Windows® Vista, Windows® Server 2003, Windows® Server 2008	
CPU	Intel Pentium IV, 3.0 GHz	Core2Duo 3.16 GHz or higher
Memory	512 MB or more	1.5 GB or more
Network Interface	100 Base-TX	1000 Base-Tx

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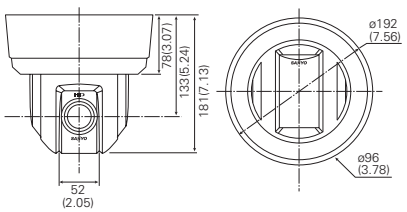
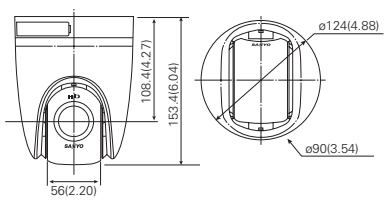
Note: •Specifications and product design are subject to change without notice. •Screen images are simulated

VCC-HD5600/VCC-HD5600 BK



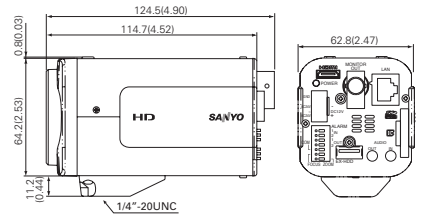
[Unit: mm (inch)]

VCC-HD5400/VCC-HD5400 BK



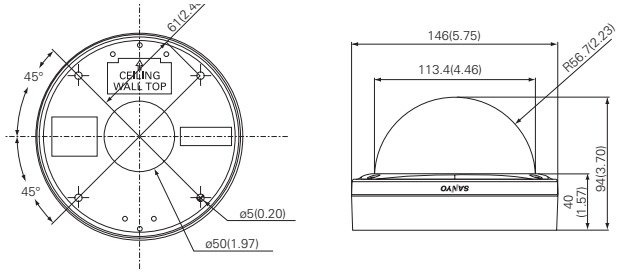
[Unit: mm (inch)]

VCC-HD4600



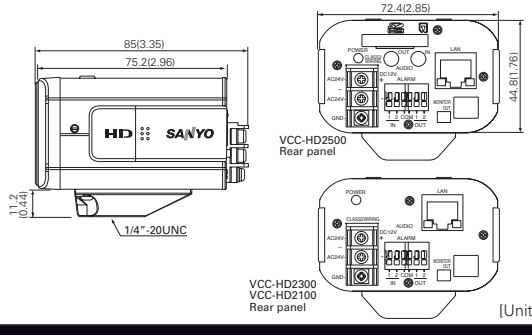
[Unit: mm (inch)]

VDC-HD3500/VDC-HD3300/VDC-HD3100



[Unit: mm (inch)]

VCC-HD2500/VCC-HD2300/VCC-HD2100



[Unit: mm (inch)]

Option combination

VCC-HD5600/ BK		VCC-HD5400/ BK
Outdoor type	**Surface type (Indoor)**	**In-ceiling type (Indoor)**

Outdoor housing
VA-80EX
(Sold separately)

VA-94S
Power Unit AC24 V

No Surface cover required.
VCC-MCH5600
(Camera unit)
VCC-MCH5600 BK
(Black color version)

VA-CM8C/VA-CM8S
(Sold separately)

VA-94S
Power Unit AC24 V

VCC-MCH5600
(Camera unit)
VCC-MCH5600 BK
(Black color version)

In-ceiling bracket
VA-80MEC/VA-80MES
(Sold separately)

VA-80AE
No Surface cover required.

with clear dome cover in **VA-80MEC**

with smoked dome cover in **VA-80MES**

Surface type (Indoor)

Model number codes

Model configurations example

Model name	Camera unit	+	Power basement	+	Housing	+	Dome cover
VCC-HD5600EXC	VCC-MCH5600	+	VA-94S	+	VA-80EX	+	VA-CM8C
VCC-HD5600EXS	VCC-MCH5600	+	VA-94S	+	VA-80EX	+	VA-CM8S

Housing type
Outdoor housing **EX** **BK** Black color version
VCC-HD5600 □□□ □□

Dome cover
C Clear cover **S** Smoked cover

Model name	Camera unit	+	Adaptor	+	Housing
VCC-HD5400MEC	VCC-HD5400	+	VA-80AE	+	VA-80MEC
VCC-HD5400MES	VCC-HD5400	+	VA-80AE	+	VA-80MES

Housing type
In-ceiling (closed) **ME** **BK** Black color version
VCC-HD5400 □□□ □□

Dome cover
C Clear cover **S** Smoked cover

VCC-HD5400/VCC-HD5400 BK

	Attachment/ Housing	Bracket	
Indoor Pendant Mounting	VA-80AM	VA-80BP	
Indoor In-Ceiling	VA-80MEC VA-80MES	VA-80AE	—
Indoor Wall Mounting	VA-80AM	VA-80BW	—
Indoor Corner Mounting			VA-80AC
Indoor Pole Mounting			VA-80AP

VDC-HD3500/VDC-HD3300/VDC-HD3100

	Attachment	Bracket	
Indoor/Outdoor Surface	—	VA-85BX	Eliminates need for cable access hole in wall, ceiling etc.
Indoor In-Ceiling	—	VA-DK03	
Indoor/Outdoor Wall Mounting	VA-80AM	VA-80BW	
Indoor/Outdoor Pendant Mounting		VA-80BP	
Indoor Wall Mounting		VA-50BW	
Indoor Pendant Mounting		VA-50BPL	
Indoor/Outdoor Corner Mounting		VA-80BW	VA-80AC
Indoor/Outdoor Pole Mounting			VA-80AP

VCC-HD5600/VCC-HD5600 BK

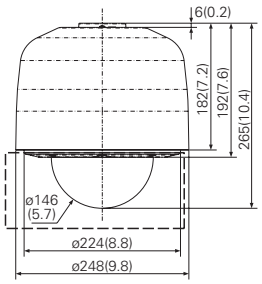
	Attachment/Housing	Dome Cover	Bracket	
Indoor Pendant Mounting	VA-80A	—	VA-80BP	
Outdoor Pendant Mounting	VA-80EX	VA-CM8C/S		
Indoor Wall Mounting	VA-80A	—	VA-80BW	—
Outdoor Wall Mounting	VA-80EX	VA-CM8C/S		
Indoor Corner Mounting	VA-80A	—		VA-80AC
Outdoor Corner Mounting	VA-80EX	VA-CM8C/S		
Indoor Pole Mounting	VA-80A	—		VA-80AP
Outdoor Pole Mounting	VA-80EX	VA-CM8C/S		

Dimensions [Unit : mm (inch)]

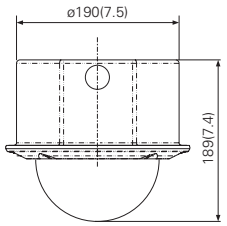
Housing (sold separately)

Outdoor Housing
VA-80EX

24 V AC

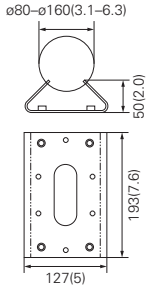


In-ceiling Housing
VA-80MEC/MES

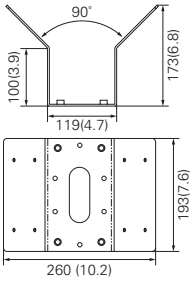


Adaptor (sold separately)

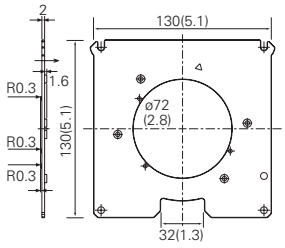
Pole Mounting Adaptor
VA-80AP



Corner Mounting Adaptor
VA-80AC

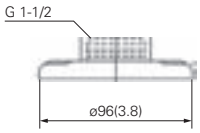


Adaptor
VA-80AE

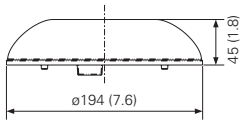


Bracket (sold separately)

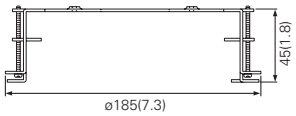
Adaptor Bracket
VA-80AB



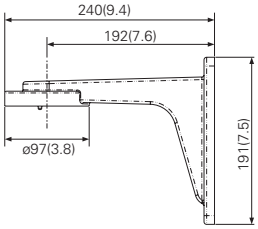
Attachment
VA-80A



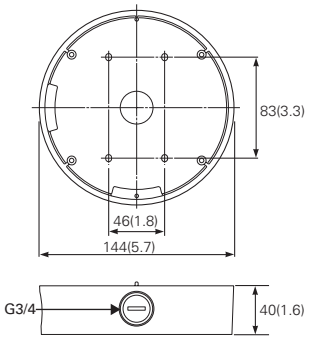
In-ceiling Bracket
VA-DK03



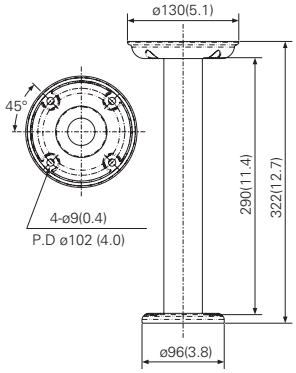
Wall Mounting Bracket
VA-80BW



Base Bracket
VA-85BX

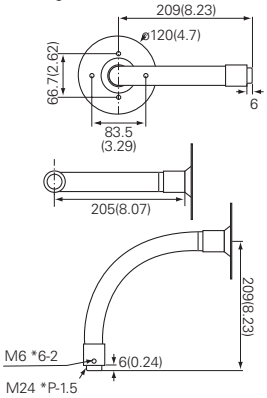


Pendant Mounting Bracket
VA-80BP



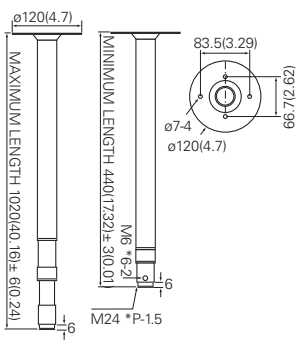
Wall Mounting Bracket
VA-50BW

350g (12.3 oz.)

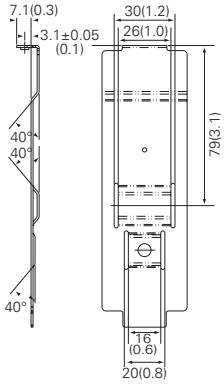


Ceiling Suspension Bracket
VA-50BPL

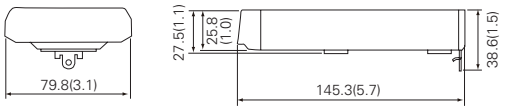
550g (19.4 oz.)



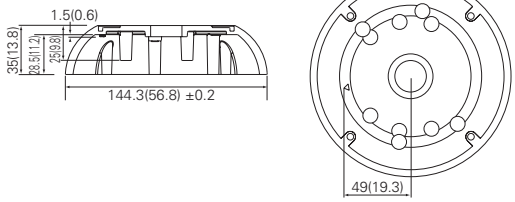
HDD Case Bracket
VA-HDK1



HDD Case
VA-HDC4000



Attachment
VA-80AM



Dome Cover (sold separately)

Clear Dome Cover	Smoked Dome Cover
VA-CM8C	**VA-CM8S**
for outdoor housing	for outdoor housing

www.sanyosecurity.com

***Caution:** Please consult the instruction manual to ensure safe and proper operation of the product.

Digital System Company of SANYO Electric Co., Ltd. obtained Quality Management System ISO9001 and Environmental Management System ISO14001 certifications.

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